

# Akira Naito

## List of Publications by Year in descending order

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152  
papers

2,453  
citations

159585

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243625

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g-index

154  
all docs

154  
docs citations

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times ranked

1916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformation and Dynamics of Melittin Bound to Magnetically Oriented Lipid Bilayers by Solid-State $^{31}\text{P}$ and $^{13}\text{C}$ NMR Spectroscopy. <i>Biophysical Journal</i> , 2000, 78, 2405-2417.	0.5	118
2	Conformational transitions and fibrillation mechanism of human calcitonin as studied by high-resolution solid-state $^{13}\text{C}$ NMR. <i>Protein Science</i> , 2000, 9, 867-877.	7.6	113
3	Structural diversity of amyloid fibril formed in human calcitonin as revealed by site-directed $^{13}\text{C}$ solid-state NMR spectroscopy. <i>Magnetic Resonance in Chemistry</i> , 2004, 42, 247-257.	1.9	92
4	Location of a Cation-Binding Site in the Loop between Helices F and G of Bacteriorhodopsin as Studied by $^{13}\text{C}$ NMR. <i>Biophysical Journal</i> , 1999, 76, 1523-1531.	0.5	72
5	Dynamic Structure of Vesicle-Bound Melittin in a Variety of Lipid Chain Lengths by Solid-State NMR. <i>Biophysical Journal</i> , 2004, 87, 3323-3335.	0.5	71
6	NMR Characterization of Monomeric and Oligomeric Conformations of Human Calcitonin and Its Interaction with EGCG. <i>Journal of Molecular Biology</i> , 2012, 416, 108-120.	4.2	66
7	Conformation and backbone dynamics of bacteriorhodopsin revealed by $^{13}\text{C}$ -NMR. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1460, 39-48.	1.0	64
8	Solid-state NMR as a method to reveal structure and membrane-interaction of amyloidogenic proteins and peptides. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1900-1912.	2.6	62
9	Determination of the Three-Dimensional Structure of a New Crystalline Form of N-Acetyl-Pro-Gly-Phe As Revealed by $^{13}\text{C}$ REDOR, X-Ray Diffraction, and Molecular Dynamics Calculation. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14995-15004.	2.9	61
10	Small angle X-ray scattering and $^{31}\text{P}$ NMR studies on the phase behavior of phospholipid bilayered mixed micelles. <i>Chemical Physics Letters</i> , 2000, 329, 215-220.	2.6	53
11	Regio-selective Detection of Dynamic Structure of Transmembrane $\alpha$ -Helices as Revealed from $^{13}\text{C}$ NMR Spectra of $[\text{3-}^{13}\text{C}]\text{Ala}$ -labeled Bacteriorhodopsin in the Presence of $\text{Mn}^{2+}$ Ion. <i>Biophysical Journal</i> , 2001, 81, 425-434.	0.5	52
12	Structure elucidation of membrane-associated peptides and proteins in oriented bilayers by solid-state NMR spectroscopy. <i>Solid State Nuclear Magnetic Resonance</i> , 2009, 36, 67-76.	2.3	49
13	Interaction of epicatechin gallate with phospholipid membranes as revealed by solid-state NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 1654-1660.	2.6	49
14	Empirical Versus N On Empirical Evaluation Of Secondary Structure Of Fibrous And Membrane Proteins By Solid-State Nmr: A Practical Approach. <i>Annual Reports on NMR Spectroscopy</i> , 1998, 36, 79-121.	1.5	47
15	Conformation and Dynamics of $[\text{3-}^{13}\text{C}]\text{Ala}$ -Labeled Bacteriorhodopsin and Bacterioopsin, Induced by Interaction with Retinal and Its Analogs, As Studied by $^{13}\text{C}$ Nuclear Magnetic Resonance. <i>Biochemistry</i> , 1996, 35, 7520-7527.	2.5	46
16	Solid-state NMR analysis of the orientation and dynamics of epigallocatechin gallate, a green tea polyphenol, incorporated into lipid bilayers. <i>Magnetic Resonance in Chemistry</i> , 2008, 46, 174-177.	1.9	45
17	Toxic Amyloid Tape: A Novel Mixed Antiparallel/Parallel $\beta$ -Sheet Structure Formed by Amyloid $\beta$ -Protein on GM1 Clusters. <i>ACS Chemical Neuroscience</i> , 2019, 10, 563-572.	3.5	43
18	Interactions of bovine lactoferricin with acidic phospholipid bilayers and its antimicrobial activity as studied by solid-state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1523-1528.	2.6	41

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19	Backbone dynamics of polycrystalline peptides studied by measurements of <sup>15</sup> N NMR lineshapes and <sup>13</sup> C transverse relaxation times. <i>Journal of Molecular Structure</i> , 1998, 441, 231-241.	3.6	40
20	Morphological Behavior of Lipid Bilayers Induced by Melittin near the Phase Transition Temperature. <i>Biophysical Journal</i> , 2005, 89, 3214-3222.	0.5	40
21	Structural characterization of cellulose nanofibers isolated from spent coffee grounds and their composite films with poly(vinyl alcohol): a new non-wood source. <i>Cellulose</i> , 2020, 27, 5017-5028.	4.9	40
22	Dynamic aspects of membrane proteins and membrane-associated peptides as revealed by <sup>13</sup> C NMR: Lessons from bacteriorhodopsin as an intact protein. <i>Annual Reports on NMR Spectroscopy</i> , 2002, 47, 39-108.	1.5	38
23	Determination of the Three-Dimensional Structure of Crystalline Leu-Enkephalin Dihydrate Based on Six Sets of Accurately Determined Interatomic Distances from <sup>13</sup> C-REDOR NMR and the Conformation-Dependent <sup>13</sup> C Chemical Shifts. <i>Journal of Physical Chemistry B</i> , 1998, 102, 7476-7483.	2.6	37
24	Dynamic membrane interactions of antibacterial and antifungal biomolecules, and amyloid peptides, revealed by solid-state NMR spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 307-323.	2.4	37
25	Effect of Electrostatic Interaction on Fibril Formation of Human Calcitonin as Studied by High Resolution Solid State <sup>13</sup> C NMR. <i>Journal of Biological Chemistry</i> , 2003, 278, 2859-2865.	3.4	36
26	Structure and orientation of antibiotic peptide alamethicin in phospholipid bilayers as revealed by chemical shift oscillation analysis of solid state nuclear magnetic resonance and molecular dynamics simulation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2789-2798.	2.6	36
27	Role of aromatic residues in amyloid fibril formation of human calcitonin by solid-state <sup>13</sup> C NMR and molecular dynamics simulation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8890.	2.8	35
28	Long-Distance Effects of Site-Directed Mutations on Backbone Conformation in Bacteriorhodopsin from Solid State NMR of [ <sup>13</sup> C]Val-Labeled Proteins. <i>Biophysical Journal</i> , 1999, 77, 431-442.	0.5	34
29	Dynorphin induced magnetic ordering in lipid bilayers as studied by <sup>31</sup> P NMR spectroscopy. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2002, 1558, 34-44.	2.6	33
30	Solid-State NMR Studies of Two Backbone Conformations at Tyr185 as a Function of Retinal Configurations in the Dark, Light, and Pressure Adapted Bacteriorhodopsins. <i>Journal of the American Chemical Society</i> , 2007, 129, 1016-1017.	13.7	31
31	NMR studies on fully hydrated membrane proteins, with emphasis on bacteriorhodopsin as a typical and prototype membrane protein. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3145-3161.	2.6	27
32	Pressure-induced Isomerization of Retinal on Bacteriorhodopsin as Disclosed by Fast Magic Angle Spinning NMR. <i>Photochemistry and Photobiology</i> , 2007, 83, 346-350.	2.5	27
33	Refined Crystal Structure of <i>Samia cynthia ricini</i> Silk Fibroin Revealed by Solid-State NMR Investigations. <i>Biomacromolecules</i> , 2017, 18, 1965-1974.	5.4	27
34	An Active Photoreceptor Intermediate Revealed by In Situ Photoirradiated Solid-State NMR Spectroscopy. <i>Biophysical Journal</i> , 2011, 101, L50-L52.	0.5	26
35	Novel method for NMR spectral correlation between the native and the denatured states of a protein. Application to ribonuclease A. <i>Journal of the American Chemical Society</i> , 1991, 113, 4688-4689.	13.7	25
36	Dramatic reduction of the RF power for attenuation of sample heating in 2D-separated local field solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2005, 402, 245-250.	2.6	25

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37	Structure and Orientation of Bovine Lactoferrampin in the Mimetic Bacterial Membrane as Revealed by Solid-State NMR and Molecular Dynamics Simulation. <i>Biophysical Journal</i> , 2012, 103, 1735-1743.	0.5	25
38	The role of d - allo -isoleucine in the deposition of the anti- Leishmania peptide bombinin H4 as revealed by 31 P solid-state NMR, VCD spectroscopy, and MD simulation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2018, 1866, 789-798.	2.3	24
39	Structure and orientation of dynorphin bound to lipid bilayers by 13C solid-state NMR. <i>Journal of Molecular Structure</i> , 2005, 749, 13-19.	3.6	23
40	State-correlated two-dimensional NMR spectroscopy: Separation of local dipolar fields of protons in nematic phase of 4-methoxybenzylidene-4-acetoxyaniline. <i>Journal of Chemical Physics</i> , 1996, 105, 4504-4510.	3.0	20
41	Analysis of Dipolar Dephasing Pattern in a Multispin System for Obtaining the Information of Molecular Packing and Its Application to Crystalline N-Acetyl-Pro-Gly-Phe by REDOR Solid State NMR. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8398-8404.	2.6	20
42	Conformation and Dynamics of the [3-13C]Ala, [1-13C]Val-Labeled Truncated pharaonis Transducer, pHtrII(1-159), as Revealed by Site-Directed 13C Solid-State NMR: Changes Due to Association with Phoborhodopsin (Sensory Rhodopsin II). <i>Biophysical Journal</i> , 2004, 86, 3131-3140.	0.5	20
43	Dynamic aspects of extracellular loop region as a proton release pathway of bacteriorhodopsin studied by relaxation time measurements by solid state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 3090-3097.	2.6	20
44	Color-Discriminating Retinal Configurations of Sensory Rhodopsin...I by Photo-Irradiation Solid-State NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6960-6964.	13.8	20
45	Self-assembly of tripeptides into $\beta$ -turn nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10879-10883.	2.8	20
46	Cytoplasmic surface structure of bacteriorhodopsin consisting of interhelical loops and C-terminal $\beta$ helix, modified by a variety of environmental factors as studied by 13C-NMR. <i>FEBS Journal</i> , 2001, 268, 2218-2228.	0.2	19
47	Molecular Dynamics Simulation of Bombolitin II in the Dipalmitoylphosphatidylcholine Membrane Bilayer. <i>Biophysical Journal</i> , 2011, 101, 1212-1220.	0.5	19
48	Recent Solid-State NMR Studies of Membrane-Bound Peptides and Proteins. <i>Annual Reports on NMR Spectroscopy</i> , 2015, 86, 333-411.	1.5	19
49	Lamellar Structure in Alanine-Glycine Copolypeptides Studied by Solid-State NMR Spectroscopy: A Model for the Crystalline Domain of <i>Bombyx mori</i> Silk Fibroin in Silk II Form. <i>Biomacromolecules</i> , 2020, 21, 3102-3111.	5.4	19
50	Characterization of the spherical intermediates and fibril formation of hCT in HEPES solution using solid-state 13C-NMR and transmission electron microscopy. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16956.	2.8	18
51	Local Order, Conformation, and Interaction in Nematic 4-(n-Pentyloxy)-4'-cyanobiphenyl and Its One-to-One Mixture with 1-(4'-Cyanophenyl)-4-propylcyclohexane. A Study by State-Correlated 1H Two-Dimensional NMR Spectroscopy. <i>The Journal of Physical Chemistry</i> , 1995, 99, 9523-9529.	2.9	17
52	Dynamic Structure of Bombolitin II Bound to Lipid Bilayers as Revealed by Solid-state NMR and Molecular-Dynamics Simulation. <i>Biophysical Journal</i> , 2010, 99, 3282-3289.	0.5	16
53	Growth-incompetent monomers of human calcitonin lead to a noncanonical direct relationship between peptide concentration and aggregation lag time. <i>Journal of Biological Chemistry</i> , 2017, 292, 14963-14976.	3.4	16
54	Surface and Dynamic Structures of Bacteriorhodopsin in a 2D Crystal, a Distorted or Disrupted Lattice, as Revealed by Site-directed Solid-state 13C NMR. <i>Photochemistry and Photobiology</i> , 2007, 83, 253-262.	2.5	15

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55	Inhibitory Mechanism of Pancreatic Amyloid Fibril Formation: Formation of the Complex between Tea Catechins and the Fragment of Residues 22â€“27. <i>Biochemistry</i> , 2012, 51, 10167-10174.	2.5	15
56	Structural Biology of Calcitonin: From Aqueous Therapeutic Properties to Amyloid Aggregation. <i>Israel Journal of Chemistry</i> , 2017, 57, 634-650.	2.3	15
57	Remarkable reduction of rf power by ATANSEMA and DATANSEMA separated local field in solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2006, 419, 120-124.	2.6	14
58	Participation of the Surface Structure of Pharaonis Phoborhodopsin, ppR and its A149S and A149V mutants, Consisting of the C-terminal Î±-helix and E-F Loop, in the Complex-formation with the Cognate Transducer pHtrll, as Revealed by Site-directed <sup>13</sup> C Solid. <i>Photochemistry and Photobiology</i> , 2007, 83, 339-345.	2.5	14
59	Dynamics Change of Phoborhodopsin and Transducer by Activation: Study Using D75N Mutant of the Receptor by Site-directed Solidâ€“state <sup>13</sup> C NMR. <i>Photochemistry and Photobiology</i> , 2008, 84, 921-930.	2.5	14
60	Packing arrangement of <sup>13</sup> C selectively labeled sequence model peptides of Samia cynthia ricini silk fibroin fibers studied by solid-state NMR. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13379-13386.	2.8	14
61	Thermal and Nonthermal Microwave Effects of Ethanol and Hexane-Mixed Solution as Revealed by In Situ Microwave Irradiation Nuclear Magnetic Resonance Spectroscopy and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9615-9624.	2.6	14
62	Chain-folded lamellar structure and dynamics of the crystalline fraction of Bombyx mori silk fibroin and of (Ala-Gly-Ser-Gly-Ala-Gly) <sub>n</sub> model peptides. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 3974-3983.	7.5	14
63	Dynamic Structure and Orientation of Melittin Bound to Acidic Lipid Bilayers, As Revealed by Solid-State NMR and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1802-1811.	2.6	12
64	Photoreaction pathways and photointermediates of retinal-binding photoreceptor proteins as revealed by in situ photoirradiation solid-state NMR spectroscopy. <i>Biophysical Reviews</i> , 2019, 11, 167-181.	3.2	12
65	Development of Small-Diameter Elastin-Silk Fibroin Vascular Grafts. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 622220.	4.1	12
66	Conformation and dynamics changes of bacteriorhodopsin and its D85N mutant in the absence of 2D crystalline lattice as revealed by site-directed <sup>13</sup> C NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 181-189.	2.6	10
67	Characterization of photo-intermediates in the photo-reaction pathways of a bacteriorhodopsin Y185F mutant using in situ photo-irradiation solid-state NMR spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1694-1702.	2.9	10
68	Acetylation of Bombyx mori silk fibroin and their characterization in the dry and hydrated states using <sup>13</sup> C solid-state NMR. <i>International Journal of Biological Macromolecules</i> , 2020, 155, 1410-1419.	7.5	10
69	Dynamics and orientation of transmembrane peptide from bacteriorhodopsin incorporated into lipid bilayer as revealed by solid state <sup>31</sup> P and <sup>13</sup> C NMR spectroscopy. <i>Biopolymers</i> , 2002, 63, 122-131.	2.4	9
70	Participation of the BC Loop in the Correct Folding of Bacteriorhodopsin as Revealed by Solidâ€“state NMR. <i>Photochemistry and Photobiology</i> , 2009, 85, 624-630.	2.5	9
71	Interaction of Extracellular Loop II of Î²-Opioid Receptor (196â€“228) with Opioid Peptide Dynorphin in Membrane Environments as Revealed by Solid State Nuclear Magnetic Resonance, Quartz Crystal Microbalance and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2014, 118, 9604-9612.	2.6	9
72	The microwave heating mechanism of N-(4-methoxybenzyliden)-4-butylaniline in liquid crystalline and isotropic phases as determined using in situ microwave irradiation NMR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9082-9089.	2.8	9

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73	Dynamics of Alanine Methyl Groups in Alanine Oligopeptides and Spider Dragline Silks with Different Packing Structures As Studied by <sup>13</sup> C Solid-State NMR Relaxation. <i>Macromolecules</i> , 2018, 51, 6746-6756.	4.8	9
74	Packing Structure of Antiparallel $\beta^2$ -Sheet Polyalanine Region in a Sequential Model Peptide of <i>Nephila clavipes</i> Dragline Silk Studied Using <sup>13</sup> C Solid-State NMR and MD Simulation. <i>Biomacromolecules</i> , 2019, 20, 3884-3894.	5.4	9
75	<sup>31</sup> P and <sup>13</sup> C solid-state NMR analysis of morphological changes of phospholipid bilayers containing glucagon during fibril formation of glucagon under neutral condition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183290.	2.6	9
76	Retinal Configuration of ppR Intermediates Revealed by Photoirradiation Solid-State NMR and $\Delta$ DFT. <i>Biophysical Journal</i> , 2018, 115, 72-83.	0.5	8
77	Unusual Dynamics of Alanine Residues in Polyalanine Regions with Staggered Packing Structure of <i>Samia cynthia ricini</i> Silk Fiber in Dry and Hydrated States Studied by <sup>13</sup> C Solid-State NMR and Molecular Dynamics Simulation. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6511-6520.	2.6	8
78	Reduction of rf power of observed nuclei for 1H-homonuclear decoupled cross-polarization in solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2003, 380, 569-576.	2.6	7
79	Parallel $\beta^2$ -Sheet Structure of Alanine Tetrapeptide in the Solid State As Studied by Solid-State NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8932-8941.	2.6	7
80	Structure and dynamics of biodegradable polyurethane-silk fibroin composite materials in the dry and hydrated states studied using <sup>13</sup> C solid-state NMR spectroscopy. <i>Polymer Degradation and Stability</i> , 2021, 190, 109645.	5.8	7
81	Change in local dynamics of bacteriorhodopsin with retinal isomerization under pressure as studied by fast magic angle spinning NMR. <i>Polymer Journal</i> , 2012, 44, 863-867.	2.7	6
82	Packing Arrangements and Intersheet Interaction of Alanine Oligopeptides As Revealed by Relaxation Parameters Obtained from High-Resolution <sup>13</sup> C Solid-State NMR. <i>Journal of Physical Chemistry B</i> , 2017, 121, 8946-8955.	2.6	6
83	Quantitative Analysis of Solid-State Homonuclear Correlation Spectra of Antiparallel $\beta^2$ -Sheet Alanine Tetramers. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2715-2724.	2.6	6
84	Formylation of Recombinant Spider Silk in Formic Acid and Wet Spinning Studied Using Nuclear Magnetic Resonance and Infrared Spectroscopies. <i>ACS Biomaterials Science and Engineering</i> , 2022, , .	5.2	6
85	Suppressed or recovered intensities analysis in site-directed <sup>13</sup> C NMR: Assessment of low-frequency fluctuations in bacteriorhodopsin and D85N mutants revisited. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 167-176.	2.6	5
86	Photoirradiation and Microwave Irradiation NMR Spectroscopy. , 2018, , 135-170.		5
87	Structure of a retinal chromophore of dark-adapted middle rhodopsin as studied by solid-state nuclear magnetic resonance spectroscopy. <i>Biophysics and Physicobiology</i> , 2021, 18, 177-185.	1.0	5
88	Atomistic-Resolution Structural Studies of Liquid Crystalline Materials Using Solid-State NMR Techniques. , 2007, , 85-116.		5
89	Structure of silk I ( <i>Bombyx mori</i> silk fibroin before spinning) in the dry and hydrated states studied using <sup>13</sup> C solid-state NMR spectroscopy. <i>International Journal of Biological Macromolecules</i> , 2022, 216, 282-290.	7.5	5
90	Separation of local magnetic fields of individual protons in nematic phase by state-correlated 2D NMR spectroscopy. <i>Journal of Magnetic Resonance</i> , 1991, 92, 85-93.	0.5	4

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91	Mechanism for microwave heating of 1-(4- <sup>2</sup> -cyanophenyl)-4-propylcyclohexane characterized by in situ microwave irradiation NMR spectroscopy. Journal of Magnetic Resonance, 2015, 254, 27-34.	2.1	4
92	Toward Understanding the Silk Fiber Structure: <sup>13</sup> C Solid-State NMR Studies of the Packing Structures of Alanine Oligomers before and after Trifluoroacetic Acid Treatment. Journal of Physical Chemistry B, 2019, 123, 6716-6727.	2.6	4
93	Fibrillation mechanism of glucagon in the presence of phospholipid bilayers as revealed by <sup>13</sup> C solid-state NMR spectroscopy. Chemistry and Physics of Lipids, 2019, 219, 36-44.	3.2	4
94	Structural investigations of polyurethane and silk-polyurethane composite fiber studied by <sup>13</sup> C solid-state NMR spectroscopy. Journal of Applied Polymer Science, 2021, 138, 51178.	2.6	4
95	CHAPTER 20. Photoactivated Structural Changes in Photoreceptor Membrane Proteins as Revealed by in situ Photoirradiation Solid-State NMR Spectroscopy. New Developments in NMR, 2014, , 387-404.	0.1	4
96	Acetylation and hydration treatment of recombinant spider silk fiber, and their characterization using <sup>13</sup> C NMR spectroscopy. Polymer, 2022, 243, 124605.	3.8	3
97	Characterization of a Water-Dispersed Biodegradable Polyurethane-Silk Composite Sponge Using <sup>13</sup> C Solid-State Nuclear Magnetic Resonance as Coating Material for Silk Vascular Grafts with Small Diameters. Molecules, 2021, 26, 4649.	3.8	2
98	Structural Analyses of Alanine Trimer and Tetramer Crystals with Antiparallel and Parallel $\beta$ -Sheet Structures Using Solid-State <sup>1</sup> H Spin-Diffusion 2D Correlation NMR Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 9373-9381.	2.6	1
99	In Situ Photo Irradiation Solid-State NMR Spectroscopy Applied to Retinal-Binding Membrane Proteins. , 2018, , 537-557.		1
100	Photoswitching of 5-phenylazopyrimidines in crystalline powders and thin films. Dyes and Pigments, 2022, 199, 110066.	3.7	1
101	Photoreaction Pathways of Bacteriorhodopsin and Its D96N Mutant as Revealed by in Situ Photoirradiation Solid-State NMR. Membranes, 2022, 12, 279.	3.0	1
102	2P111 Fibril formation and structure of glucagon as studied by <sup>13</sup> C solid-state NMR spectroscopy(31. Protein folding and misfolding (II),Poster Session,Abstract,Meeting Program of EABS) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
103	1P423 Local Conformation and Dynamics Changes in the vicinity of the Retinal in Photoactivated pharaonis phoborhodopsin by Solid-State NMR(17. Light driven system,Poster Session,Abstract,Meeting) Tj ETQq1 d. 0.784314 rgBT /Overlock 10 Tf 50		
104	2P250 The Effect of Cardiolipin in Selective Interaction of LfcinB with Acidic Phospholipid Bilayers and its Antimicrobial Activity(Native and artificial biomembranes,Oral Presentations). Seibutsu Butsuri, 2007, 47, S175.	0.1	0
105	2P252 Different interaction of ACTH with acidic mixed lipid bilayers in the presence and absence of cholesterol as studied by Solid state NMR(Native and artificial biomembranes-structure and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
106	3P025 Low-Frequency Spectra and Secondary Structures of poly-L-lysine in a Lyphalized Form(Hemeproteins. Electronic states. Proteins-structure and structure-function relationship,Oral) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50		
107	3P053 Amyloidogenic fibrils and the structure of glucagon in the presence and absence of phospholipids as studied by <sup>13</sup> C solid-state NMR(Proteins-stability, folding, and other) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50		
108	3P054 Amyloid fibril inhibition mechanism of amyloidogenic peptides as studied by solid state NMR spectroscopy(Proteins-stability, folding, and other physicochemical properties,Poster Presentations). Seibutsu Butsuri, 2007, 47, S216.	0.1	0

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109	3P217 High-Resolution Solid-State NMR Studies of Backbone Conformations at Tyr in Bacteriorhodopsin corresponding to Retinal Configurations.(Photobiology- vision and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 73	0.1	0
110	3P218 Dynamic aspects of extracellular loop of bacteriorhodopsin and bacterio-opsin as studied by solid-state NMR(Photobiology- vision and photoreception,Poster Presentations). Seibutsu Butsuri, 2007, 47, S257.	0.1	0
111	3P220 Backbone conformations of Bacteriorhodopsin in the vicinity of retinal as studied by solid-state $^{13}\text{C}$ NMR spectroscopy(Photobiology- vision and photoreception,Poster) Tj ETQq1 1 0.784314rgBT /Overlock 10 Tf 50 73	0.1	0
112	3P231 Dynamics and conformation of transducer protein complexed with pharaonis phoborhodopsin as studied by $^{13}\text{C}$ solid state NMR(Photobiology- vision and photoreception,Poster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 617	0.1	0
113	3P228 Analysis of Photoactivated pharaonis Phoborhodopsin by Solid-State NMR(Photobiology- vision) Tj ETQq1 1 0.784314rgBT /Overlock 10 Tf 50 73	0.1	0
114	2P251 Interaction of $\text{I}^2$ -endorphin with a model membrane consisting of unsaturated lipids and cholesterol bilayers as studied by solid-state NMR(Native and artificial biomembranes-structure and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 73	0.1	0
115	Array arrangement of living cells on self-assembled-monolayer pattern chip with femtosecond laser inducing mechanical force "micro tsunami". , 2008, , .		0
116	1P-268 Interaction of aromatic amino acid residues with retinal in bacteriorhodopsin as disclosed by solid-state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S63.	0.1	0
117	3P-088 Solid-state NMR studies of backbone conformations at Tyr as a probe of retinal-protein interaction in the dark-adapted Bacteriorhodopsin(Invited Talk for Early Research in Biophysics) Tj ETQq1 1 0.784314rgBT /Overlock 10 Tf 50 73	0.1	0
118	2P-101 Fibrillation mechanism of glucagon in the presence of phospholipid bicelles as studied by $^{13}\text{C}$ solid-state NMR and TEM(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S90-S91.	0.1	0
119	2P-260 Interactional change of cytoplasmic surface region of ppR complexed with pHtrII as studied by solid-state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S115.	0.1	0
120	2P-274 Dynamics and conformational changes of pHtrII complexed with ppR in the photo activation as studied by $^{13}\text{C}$ solid state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S117.	0.1	0
121	1P-218 Interaction of Myristoylated Alanine-Rich C Kinase Substrate with Phosphoinositides in bilayer as studied by QCM and solid-state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S55.	0.1	0
122	1P-270 The role of kinked structures in the B and C $\alpha$ -helices of bacteriorhodopsin in proton transfer, as studied by solid-state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S64.	0.1	0
123	1P-266 Conformational changes of bacteriorhodopsin in the vicinity of Asp involving in proton pumping as studied by solid-state NMR(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S63.	0.1	0
124	1TP2-01 Analysis of local protein conformations in photoreceptor ppR and its mutant T204A by solid-state NMR(The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S32.	0.1	0
125	1P-217 Analysis of local protein conformations in photoreceptor ppR and its mutant T204A by solid-state NMR(Photobiology:Vision & Photoreception, The 47th Annual Meeting of the) Tj ETQq1 1 0.784314rgBT /Overlock 10 Tf 50 73	0.1	0
126	1P-218 Change of interaction in cytoplasmic surface region of ppR with pHtrII in the complex formation as studied by solid-state NMR(Photobiology:Vision & Photoreception, The 47th Annual Meeting of) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 73	0.1	0



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127	3P-173 Interaction of Myristoylated Alanine-Rich C Kinase Substrate with Phosphoinositides in Phospholipid Membranes as studied by QCM and solid-state NMR(Biol & Artifi memb.:Structure) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
128	2P281 Pressure effect on retinal isomerization in bacteriorhodopsin as studied by solid state NMR(The Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
129	3P003 Structural Change and dynamics at Tyr residues in Bacteriorhodopsin corresponding to two isomers of retinal as revealed by solid-state NMR(Protein: Structure,The 48th Annual Meeting of the) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
130	3P057 Amyloid fibrillation and the structure of glucagon in the presence and absence of phospholipids as studied by solid-state NMR and TEM(Protein: Property,The 48th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
131	3P266 In situ photoirradiation solid state NMR study of local conformational change of Tyr174 corresponding to signal transduction in ppR(Photobiology: Vision & Photoreception,The 48th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
132	1G1636 Interaction of human calcitonin with curcumin as an inhibitor of fibrillation as revealed by NMR spectroscopy(Protein: Structure 1,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S48.	0.1	0
133	3Q0936 Photo-induced dynamics change of phoborhodopsin with transducer protein as studied by in-situ photo irradiated solid-state NMR(Photobiology : Vision & Photoreception3,The 49th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
134	1A1624 Dynamics structure of melittin bound to membrane as measured by solid state ^<17>O NMR(Biol & Artifi memb 1: Structure & Property, Dynamics,The 49th Annual Meeting of the) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
135	3Q0924 Local structure and dynamics changes at Tyr residues in Bacteriorhodopsin corresponding to two retinal isomers by solid-state NMR(Photobiology : Vision & Photoreception3,The 49th Annual) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
136	3Q1012 Trapping M-intermediate of D96N-bR as studied by in-situ photo-irradiated solid-state NMR(Photobiology : Vision & Photoreception3,The 49th Annual Meeting of the Biophysical Society) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.1	0
137	2A1412 Dynamic structure of antimicrobial peptide alamethicin bound to the acidic lipid bilayers as revealed by solid-state NMR spectroscopy(Biol & Artifi memb 2: Structure & Property, Dynamics, Signal) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
138	3PT114 Structure and affinity of bovine lactferrampin bind to neutral model membrane as studied by by solid state NMR and QCM(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S159-S160.	0.1	0
139	3PT127 Structure, orientation and interactions of bovine lactoferram-pin in membrane bilayers(The Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
140	2PT168 Conformational change in M-intermediate of D96N-bR as studied by in-situ photo-irradiated solid-state NMR(The 50th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2012, 52, S134.	0.1	0
141	1F1558 Light activated states of photoreceptor membrane proteins as revealed by in-situ photo-irradiated solid-state NMR(Photobiology: Vision & Photoreception I,Oral Presentation,The) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	0.1	0
142	The effect of side chains of amino acid residues in human calcitonin for fibrillation. , 2013, , .		0
143	3P067 Analyses of amyloid fibrillation mechanism and its inhibition effect of hCT as studied by ^<13>C solid-state NMR and TEM(O1C. Protein: Property,Poster). Seibutsu Butsuri, 2013, 53, S223.	0.1	0
144	3P069 Amyloid-like fibrillization and the structure of human calcitonin in the presence of acidic lipids(O1C. Protein: Property,Poster). Seibutsu Butsuri, 2013, 53, S223.	0.1	0

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145	1P288 Development of in-situ microwave irradiation NMR spectroscopy for observing non-equilibrium heating state of substances(26. Measurements,Poster). Seibutsu Butsuri, 2013, 53, S153.	0.1	0
146	2P209 Structure and affinity analysis of bovine lactoferrampin bound to a neutral model membrane as studied by solid state NMR and QCM(13A. Biological & Artificial membrane: Structure & Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50697 Td (P	0.1	0
147	1P201 Elucidation of the antimicrobial activity based on affinity and bound structure of LFampinB embedded into the neutral membrane(13A. Biological & Artificial membrane: Structure & Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50697 Td (P Butsuri, 2014, 54, S174.	0.1	0
148	Structure Determination of Membrane Peptides and Proteins by Solid-State NMR. , 2018, , 253-293.		0
149	Microwave Heating of Liquid Crystals and Ethanol-Hexane Mixed Solution and Its Features (Review). , 0, , .		0
150	Structure, Orientation and Dynamics of Biologically Active Peptides in the Spontaneously Magnetically Oriented Membrane. Seibutsu Butsuri, 2001, 41, 258-261.	0.1	0
151	In-Situ Photo Irradiation Solid-State NMR Spectroscopy Applied to Retinal-Binding Membrane Proteins. , 2017, , 1-22.		0
152	Fibril Formation by Glucagon in Solution and in Membrane Environments. , 0, , .		0